

TEC 3000 Has a New Look

We have updated the bottom of the TEC 3000 controller to make it easier to read and understand.

- The alarm descriptions are encased in broken lines.
- The warning labels are bolder with thicker lines.
- The serial number of the controller can be found at the bottom of the new tracking barcode.

We will gradually integrate the new design.

NEW TEC 3000



OLD TEC 3000



MVE DataLogger Time Settings

The MVE Logger has two time settings: Current Time and Start Time.

The Current Time cannot be altered; it is derived from the computer's internal clock. If this time is incorrect, the computer's clock must be reset.

The Start Time is the time the MVE DataLogger will begin to record data. The time format for both is Day/Month/Year i.e. March 10, 2009, is 10/03/2009.



Normal Evaporation Rate Test & Hold Time Procedure for Vapor Shippers

There has been some confusion as to the appropriate normal evaporation rate (NER) test procedure. Below you will find the procedure and calculations to estimate normal evaporation rate and hold time.

1. Weigh empty unit [W_{EMPTY}]
 - a. With cork/cover on, but no racks or canisters inside
2. Fill unit to bottom of neck tube with LN2
 - a. Refill after a half an hour so unit can reach equilibrium
3. Wait 24 hours
 - a. This is a cool down period that allows the Cabosil to charge and the LN2 to reach a constant boil-off
4. Take a first weight [W_1]
 - a. With cork/cover on, but no rack or canister inside
5. Wait another 24 hours
6. Take a second weight [W_2]
 - a. With cork/cover on, but no racks or canisters inside
7. Dump LN2 out of unit
8. Take a Saturation weight [W_{SAT}]
 - a. With cork/cover on, but no racks or canisters inside
9. Calculate NER (L/day)
 - a. $NER = (W_1 - W_2) \times 0.5606$
10. Calculate Hold Time (days)
 - a. $HoldTime = \frac{(W_{SAT} - W_{EMPTY}) \times 0.5606}{NER}$

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